The Army Architecture Repository Management System (AARMS)

UP-DATE BULLETIN
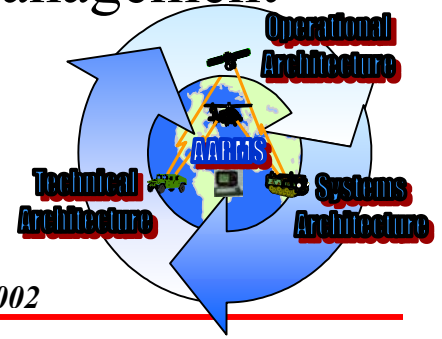
AARMS version 1.1.0.0 Released September 30th

On September 30th, 2002, the AARMS team released version 1.1.0.0 of the AARMS Architecture Tool Set. Significant changes and enhancements were made in response to user feedback from training sessions and the initial fielding of AARMS in July. The new features include:

1. Icon Selection for Nodes in OV4/OV2 Products. This is an extensible list that only requires the creation of a small bitmapped image. Each image should be 64WX32H pixels and 16bit color depth or less. The symbols available in this version come from FM 101-5-1.

2. Icon caching on client workstations to speed subsequent logins after the icon cache is refreshed or renewed on the server.

3. OPFAC dataset reuse on the IER Editor to improve response performance of this facility. With the new scheme for loading the form, it is only necessary to download one copy of the OPFAC table, which is then cached into 3 additional datasets. This has shown as much as a 5X-7X speed improvement over a 56K dialup connection.

4. Users now have the ability to move Functional Elements from one node to another in the OV4 product. This feature is a result of the permissions rewrite and also enables any proponent icon to be subordinate to another in the OV4 diagram. Thus permitting more realistic, task organized command structures. Proponents also now have the ability to edit all parts of the Functional Element, including the proponent code itself.

5. Enhanced performance in OV2 while deleting and adding links between nodes. The stored procedures in the database performing these functions were re-written to take better advantage of some built in Oracle functions that deal with hierarchical data relationships.

6. Addition of an OV3 Information Exchange Matrix (IEM) Message Table Wizard facility. This tool provides the user the ability to "build message sets" by assigning additional UJTL/AUTL tasks and Information Requirements, IR's, along with their message characteristics, to Data Item Types (DIT's). For example, Commander's Needs identified by CAC can be easily built by the user/analyst and modified in the AARMS database for use in OV3 IER's.

7. Users now have the Option of showing all OPFACS (or not) for a given proponent in the OPFAC Browser facility. This is achieved by right clicking on the proponent name and selecting 'Show All OPFACs For Proponent'.

The next major release is scheduled for 21 October, 2002. Projected enhancements include a total OPFAC/Architecture versioning re-write. This feature will facilitate greater re-use of existing OPFAC rule equipment assignments and architecture products while creating easier to manage OPFACs versioned by architecture and TO&E with greater traceability from OA through SA to approval boards. Look for more details in the next news bulletin later this month.

AARMS FIELDING SCHEDULE and PRIORITY OF EFFORT

As of: 1OCT 02

Date: 30 Sept 02 AARMS v.1.1		Date: 21 Oct 02 AARMS v.1.2	Date: 18 Nov 02 AARMS v.1.3		Date: 3 Jan 02 **AARMS v.2.0**
•Proponent/Permissions rewrite to allow more freedom in estab. cmd relationships and in building OV/SV products •Integrator Permissions defined, "global" established •Define who controls non traditional proponents such as JTF, NATO, Installation, etc. in order to build template units for external connectivity •User interface to allow users to add to message data tables thru the table mgr	•Symbols Tool Box for OV4 •Module/Thread Re-usability. The whole architecture and by view: OV-4, OV-2, OV-3, etc. • IER Copy function in OV3 builder	•OPFAC versioning, re-use, and traceability defined and implemented. •Functional Decomposition Tool Module in AARMS application	•Off-Line ability to build IERs and import into AARMS (possible web access means) •Backward compatibility from OV-3 to OV-2 and OV-4 e.g. build OV3 using another tool, import into AARMS and build other OV products from that data. •Mission Thread Module •Activity Model Tie-in (push-pull) (Pompkin vs. BPWIN)	• Special ORD/CRD IER Tool to build "6212" 10 field IERs in AARMS via web access. •Multicast Group IER function (fig.2)	• Fully Integrated OA-SA tools •Will support all three architecture types: •Organizational •Functional •Systems
		Slide right →			**Post 2.0 Enhancements** • Network Assignment by waveform vs. equipment (fig.1) •New Report Writer module* •TOE Report that contains "B" records such as paragraph and line. Similar to Charlie Hover's report •Proponent sub-folders in architecture product repository •AIPC Analysis Branch module to allow manipulation of OV3 data •OPFAC Browser in Mgt. Module ability to view OPFACs by TOE, proponent, and architecture.

SA Architecture View Tool Set development

◇━━━ **Priority of effort: Code Conversion to Delphi, User Requirements, NETVIZ draw, Horseblanket** ━━━◆

Produce Training Package Changes and on-line Help Screens to support modifications

SA tools developed in accordance with the over all architecture process to facilitate the 5 stage development plan. All planed new features and enhancements may slide left or right, with the exception of version 1.1, based on the SA development.

AARMS STATUS REPORT

The future of AARMS is looking brighter with projected up-grades and software enhancements planned to provide the architecture community with both an ARCADM compliant database and a suite of tools used to build C4ISR Architecture Products within the database.

The System Architecture team has successfully drawn NETVIZ products directly from the database with just a click of a button and Horseblanket products can now be built by the average analyst without programmer "white coat" interaction. The original SA database tool is being re-coded and improved in Delphi and will be fully seamlessly integrated into the OA/SA process by the version 2.0 release.

The Operational Architecture team is on track for the version 1.2 release later this month. The activity modeling (OV5) automated integration with both the AARMS database and tool set had to be pushed back to version 1.3. Lack of clear guidance on what commercial tool to use and problems maintaining data integrity continue to hurt this effort. We are currently working with Computer Associates and their All Fusion (BPwin) product to help solve the problem. We are also considering the Popkin System Architect tool. Members of the AARMS team will participate in a G6 sponsored working group to evaluate all architecture tools and provide recommendations for Army standard architecture tool sets.

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